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Terms: [patno=5831758](#) (Edit Search)

868737 (08) 5831758 November 3, 1998

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

**5831758**

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November 3, 1998

Multi-beam optical scanner

**REISSUE:** Reissue Application filed Oct. 18, 1999 (O.G. Dec. 7, 1999) Ex. Gp.: 2872; Re. S.N. 09/421,332, (O.G. December 7, 1999)

**INVENTOR:** Sakai, Kohji, Tokyo, JP; Aoki, Magane, Kanagawa, JP

**APPL-NO:** 868737 (08)

**FILED-DATE:** June 4, 1997

**GRANTED-DATE:** November 3, 1998

**PRIORITY:** June 5, 1996 - 8-142791, Japan (JP); January 9, 1997 - 9-002334, Japan (JP)

**ASSIGNEE-AT-ISSUE:** Ricoh Company, Ltd., Tokyo, JP

**ASSIGNEE-AFTER-ISSUE:** December 29, 1997 - ASSIGNMENT OF ASSIGNOR'S INTEREST  
(SEE DOCUMENT FOR DETAILS)., RICOH COMPANY, LTD. 1-CHOME, OHTA-KU  
3-6, NAKAMAGOME TOKYO 143 JAPAN, Reel and Frame Number: 008877/0070

**LEGAL-REP:** Oblon, Spivak, McClelland, Maier & Neustadt, P.C.

**PUB-TYPE:** November 3, 1998 - Utility Patent having no previously published pre-grant publication (A)

**PUB-COUNTRY:** United States (US)

**US-MAIN-CL:** 359#204

**US-ADDL-CL:** 347#243, 359#207, 359#208, 359#216

**CL:** 359, 347, 359

**SEARCH-FLD:** 359#204.-208, 359#216.-219, 347#233, 347#238, 347#241.-244

**IPC-MAIN-CL:** G 02B026#8

**PRIM-EXMR:** Phan, James

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US 5,831,758

09/421332

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Search statement 1

?us5831758/pn

\*\* SS 1: Results 1

Search statement 2

?prt fu legalall max

1/1 PLUSPAT - (C) QUESTEL-ORBIT- image  
CPIM (C) Questel-Orbit  
PN - US5831758 A 19981103 [US5831758]  
TI - (A) Multi-beam optical scanner  
PA - (A) RICOH KK (JP)  
IN - (A) SAKAI KOHJI (JP); AOKI MAGANE (JP)  
AP - US86873797 19970604 [1997US-0868737]  
PR - JP14279196 19960605 [1996JP-0142791]  
- JP233497 19970109 [1997JP-0002334]  
IC - (A) G02B-026/08  
EC - G02B-026/12D  
PCL - ORIGINAL (O) : 359204000; CROSS-REFERENCE (X) : 347243000 359207000  
359208000 359216000  
DT - Basic  
CT - US5025268; US5671077; JP6-48846; JP7-111509  
STG - (A) United States patent  
AB - A multi-beam optical scanner, in which a lateral magnification beta  
in a composite system of an optical system between the light source  
for a multi-beam and the scanned surface satisfies the condition: 2<  
beta </=8.5, and a plurality of light spots on the scanned surface  
execute optical scanning of the scanning lines adjacent to each other.

1/1 LGST - (C) LEGSTAT  
PN - US 5831758 [US5831758]  
AP - US 868737/97 19970604 [1997US-0868737]  
DT - US-P  
ACT - 19970604 US/AE-A  
APPLICATION DATA (PATENT)  
{US 868737/97 19970604 [1997US-0868737]}  
- 19971229 US/AS02  
ASSIGNMENT OF ASSIGNEE'S INTEREST  
RICOH COMPANY, LTD. 1-CHOME, OHTA-KU 3-6, NAKAMAGOME TOKYO 143, JAPAN \*  
SAKAI, KOHJI : 19970825; AOKI, MAGANE : 19970825  
- 19981103 US/A  
PATENT  
- 19991207 US/RF  
REISSUE APPLICATION FILED /  
19991018  
UP - 2000-06

1/14/03

US 5,831,758

09/421332

1/1 CRXX - (C) CLAIMS/RRX  
AN - 3066115  
PN - 5,831,758 A 19981103 [US5831758]  
PA - Ricoh Co Ltd JP  
PT - E (Electrical)  
ACT - 19991018 REISSUE REQUESTED  
Issue Date of O.G.: 19991207  
Reissue Request Number: 09/421332  
Examination Group responsible for Reissue process: 2872

UP - 1999-48  
UACT- 1999-12-07

1/1 PAST - (C) Thomson Derwent  
AN - 199949-001165  
PN - 5831758 A [US5831758]  
DT - A (UTILITY)  
OG - 1999-12-07  
CO - REA  
ACT - REISSUE APPLICATION FILED  
SH - REISSUE APPLICATION FILED

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For information on content, (...)INFO INPD.

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?fam us5831758/pn

1 Patent Groups  
\*\* SS 1: Results 2

Search statement 2

?famstate nonstop

1/2 INPADOC - (C) INPADOC  
PN - JP 10054950 A2 19980224 [JP10054950]  
TI - MULTIBEAM OPTICAL SCANNING DEVICE  
IN - SAKAI KOJI; AOKI MASAKANE  
PA - RICOH KK  
AP - JP 2334/97-A 19970109 [1997JP-0002334]  
PR - JP 2334/97-A 19970109 [1997JP-0002334]  
- JP 142791/96-A 19960605 [1996JP-0142791]  
IC - G02B-026/10; B41J-002/44; G02B-013/18; G02B-013/24; H04N-001/113

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US 5,831,758

09/421332

2/2 INPADOC - (C) INPADOC  
PN - US 5831758 A 19981103 [US5831758]  
TI - MULTI-BEAM OPTICAL SCANNER  
IN - SAKAI KOHJI [JP]; AOKI MAGANE [JP]  
PA - RICOH KK [JP]  
AP - US 868737/97-A 19970604 [1997US-0868737]  
PR - JP 142791/96-A 19960605 [1996JP-0142791]  
- JP 2334/97-A 19970109 [1997JP-0002334]  
IC - G02B-026/08

1/1 LEGALI - (C) LEGSTAT  
PN - US 5831758 [US5831758]  
AP - US 868737/97 19970604 [1997US-0868737]  
DT - US-P  
ACTE- 19970604 US/AE-A  
APPLICATION DATA (PATENT)  
{US 868737/97 19970604 [1997US-0868737]}  
- 19971229 US/AS02  
ASSIGNMENT OF ASSIGNEE'S INTEREST  
RICOH COMPANY, LTD. 1-CHOME, OHTA-KU 3-6, NAKAMAGOME TOKYO 143, JAPAN \*  
SAKAI, KOHJI : 19970825; AOKI, MAGANE : 19970825  
- 19981103 US/A  
PATENT  
- 19991207 US/RF  
REISSUE APPLICATION FILED  
19991018  
UP - 2000-06

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